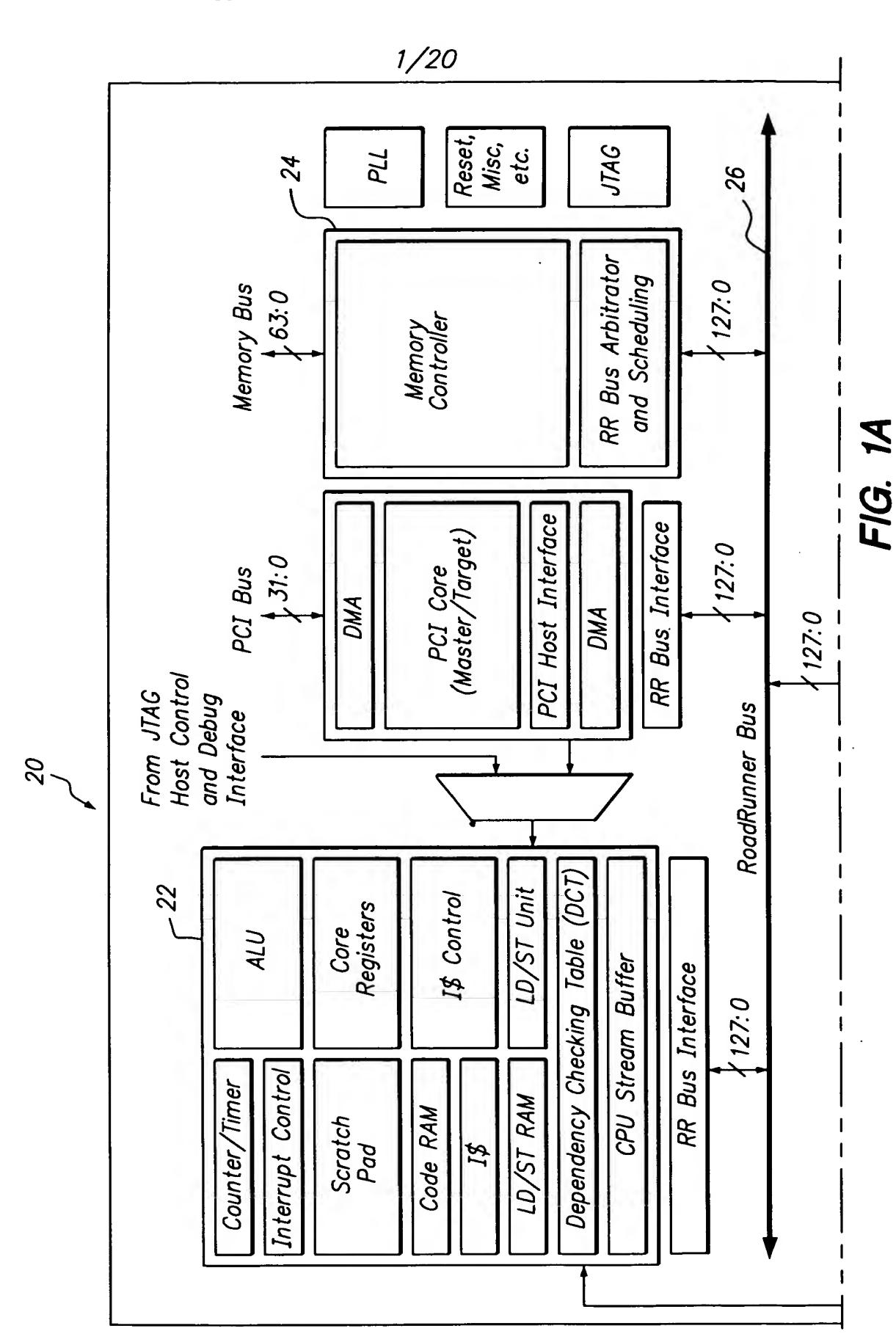
Cory

Appln. Filing Date: September 19, 200 Title: Despreader/Correlator Unit for Use in

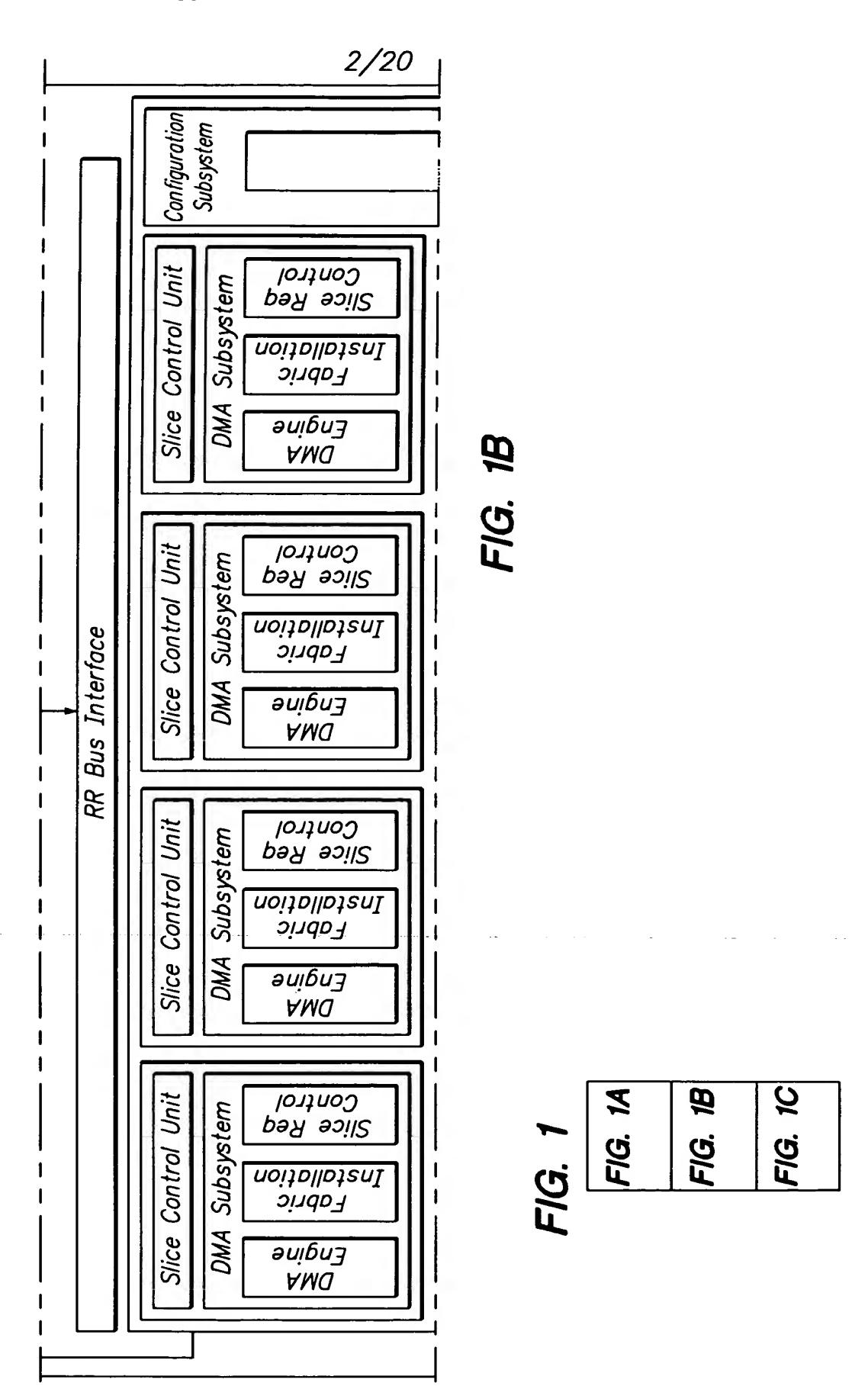
Reconfigurable Chip



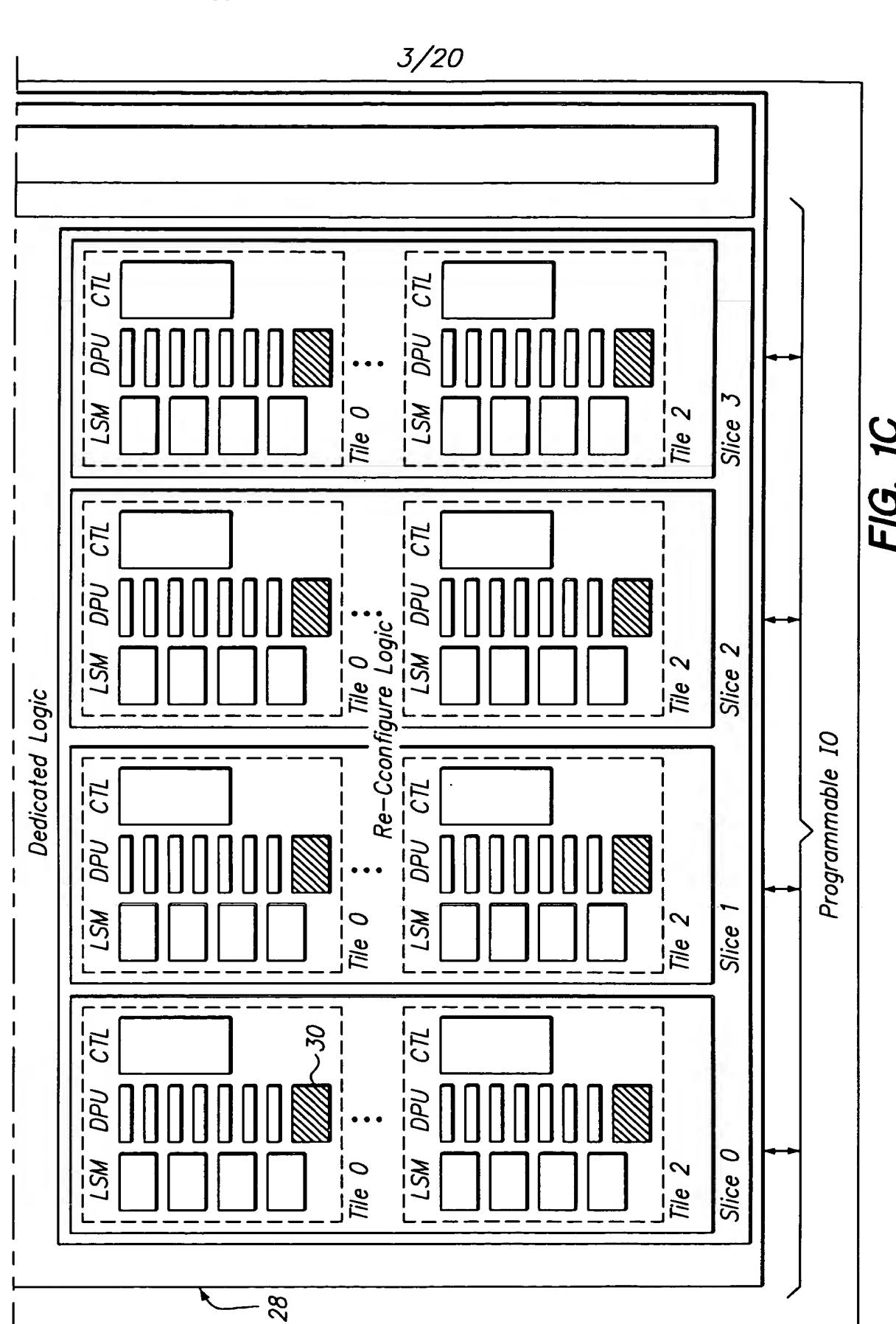
Appln. Filing Date: September 19, 2001

Title: Despreader/Correlator Unit for in

Reconfigurable Chip

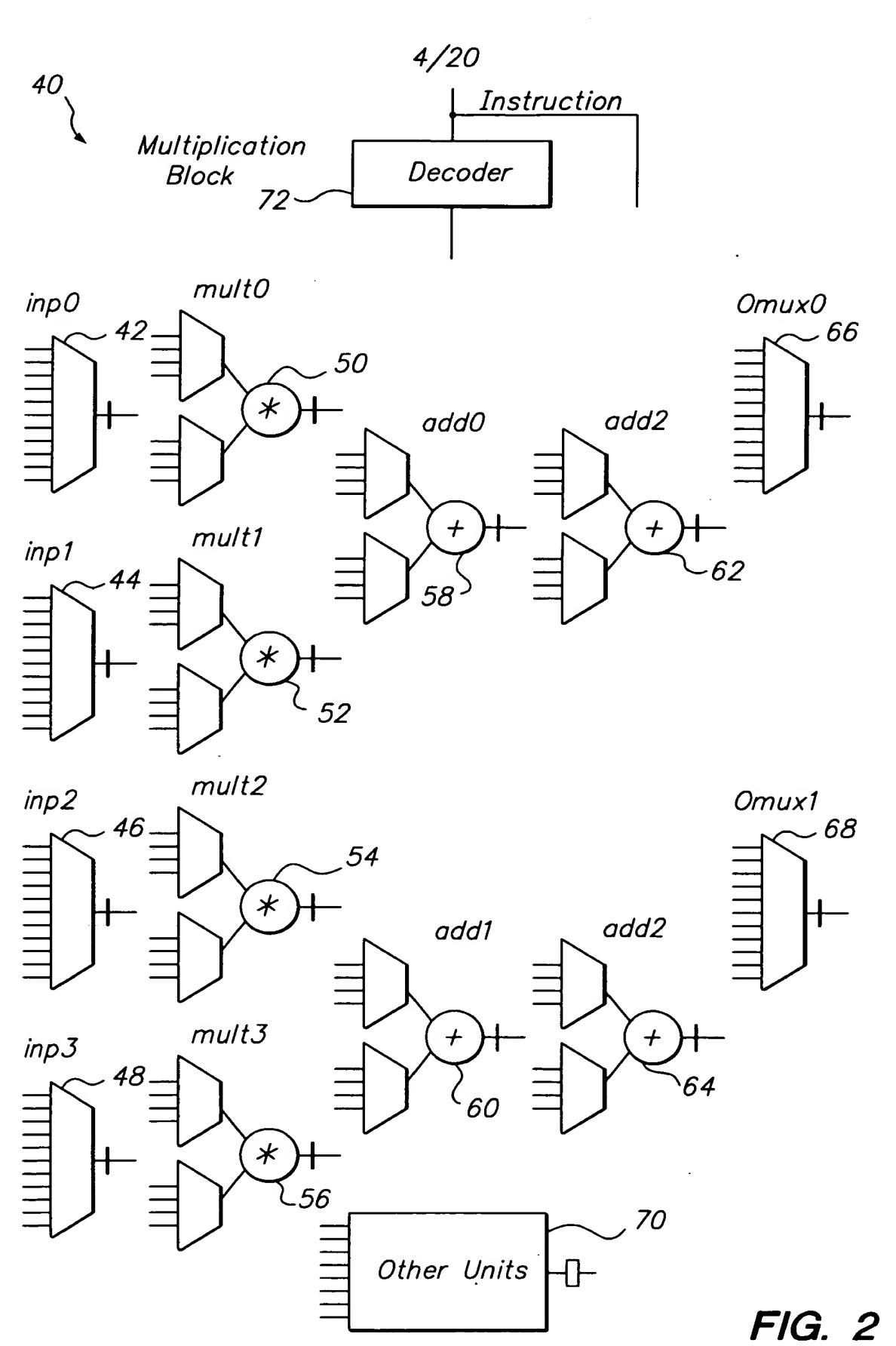


Appln. Filing Date: September 19, 200
Title: Despreader/Correlator Unit for Use in Reconfigurable Chip
Inventor: Bradley L. Taylor, et al.
Application Serial No: 09/960,710



Appln. Filing Date: September 19, 200

Title: Despreader/Correlator Unit for Use in Reconfigurable Chip



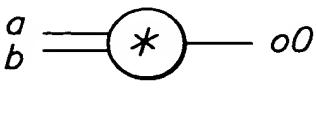
Appln. Filing Date: September 19, 2001 itle: Despreader/Correlator Unit for Us

Reconfigurable Chip

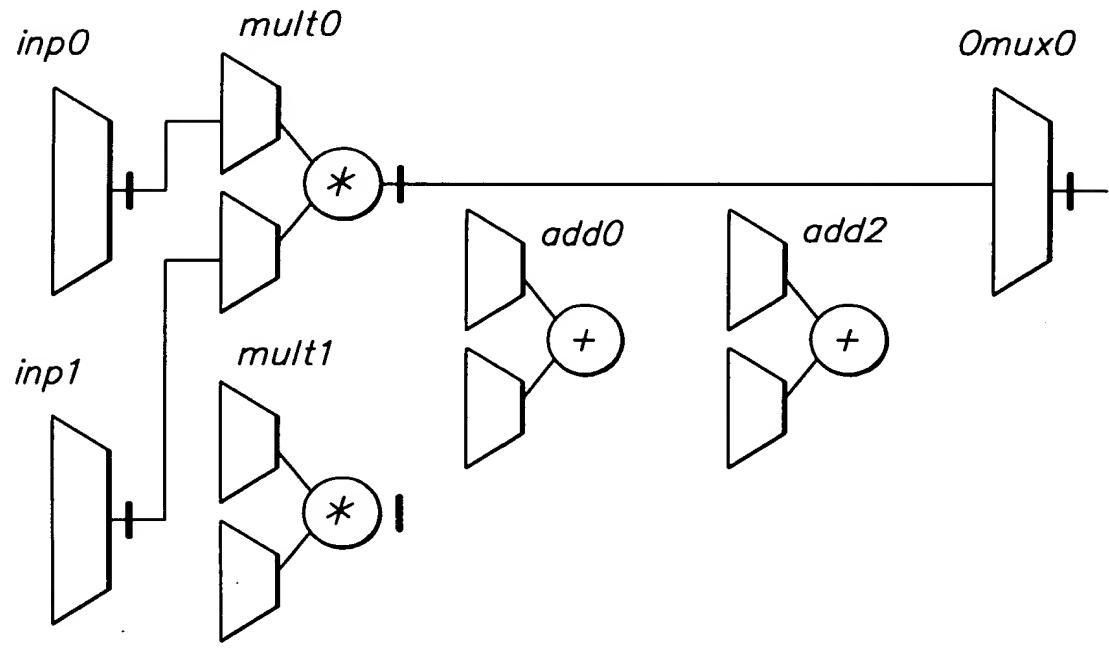
Inventor: Bradley L. Taylor, et al. Application Serial No: 09/960,710

5/20

· 2MULT-CS2112 Compatible mode 2 independent multipliers



$$d = (*)$$
 o1



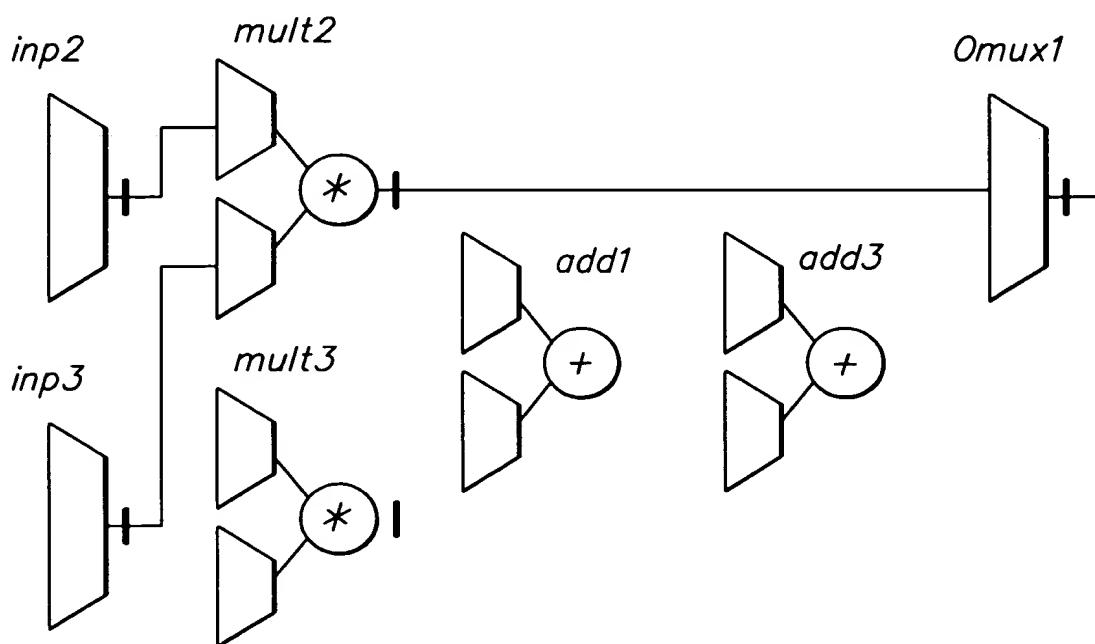


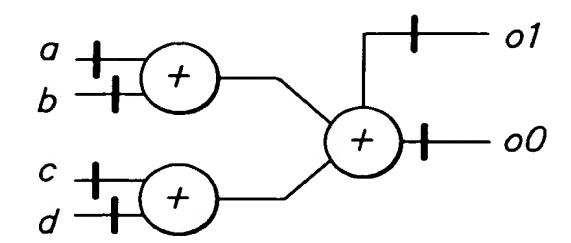
FIG. 3A

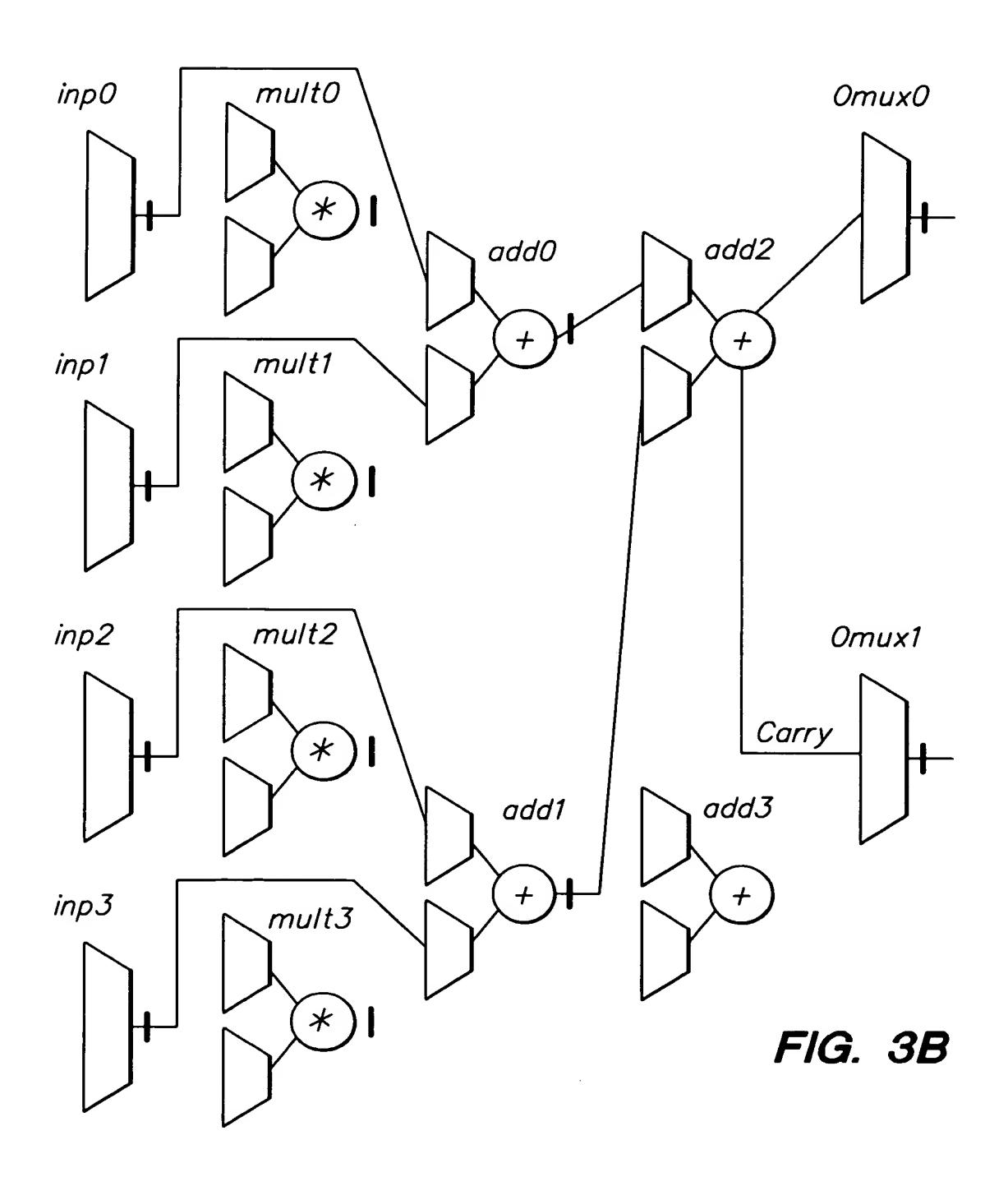
Appln. Filing Date: September 19, 20
Title: Despreader/Correlator Unit for Use in Reconfigurable Chip

Inventor: Bradley L. Taylor, et al. Application Serial No: 09/960,710

6/20

4ADD32-Sum of 4 32-bit inputs





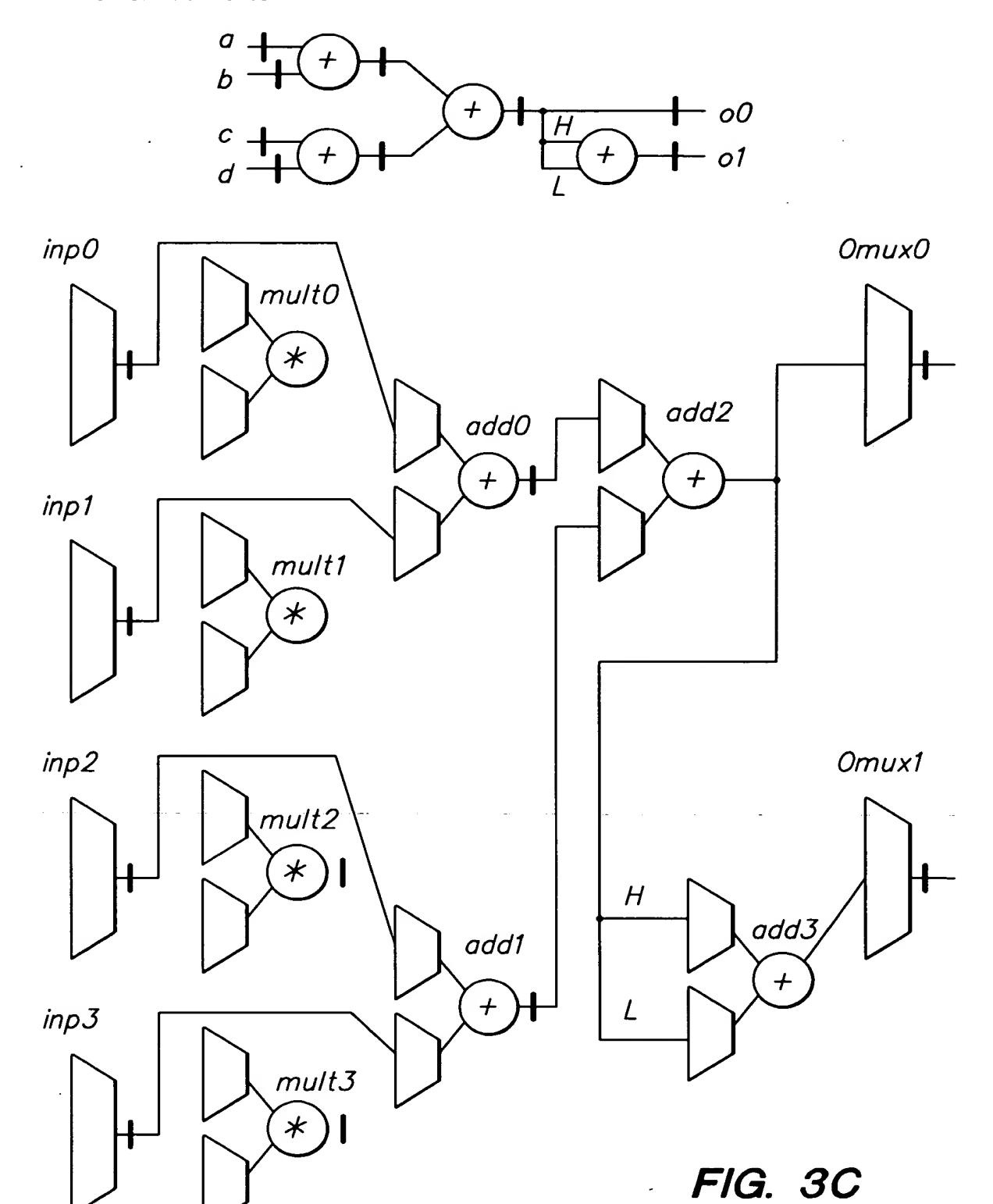
ppln. Filing Date: September 19, 2001 itle: Despreader/Correlator Unit for Use

Reconfigurable Chip

Inventor: Bradley L. Taylor, et al. Application Serial No: 09/960,710

7/20

4ADD16-Sum of 4 packed 16-bit inputs, sum of upper, lower 16-bits

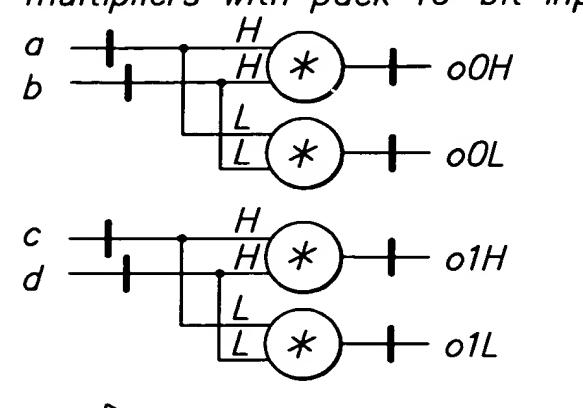


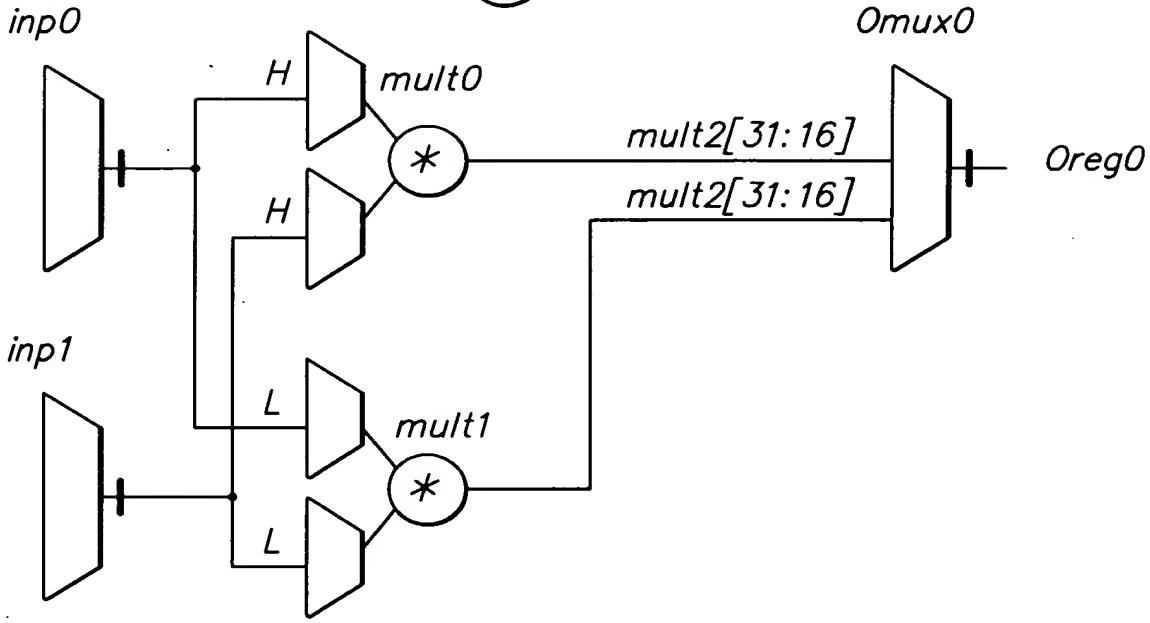
Appln. Filing Date: September 19, 2001 le: Despreader/Correlator Unit for Use Configurable Chip

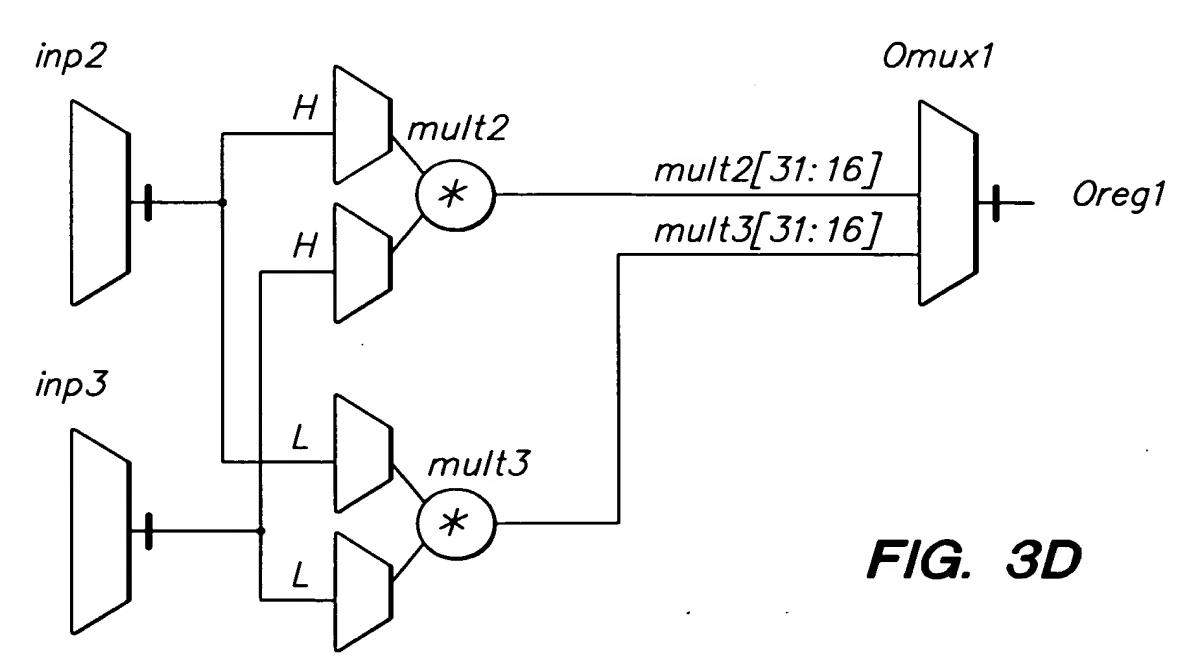
Inventor: Bradley L. Taylor, et al. Application Serial No: 09/960,710

## 8/20





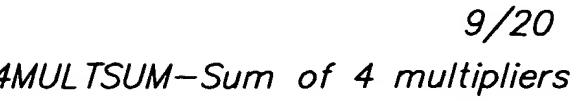




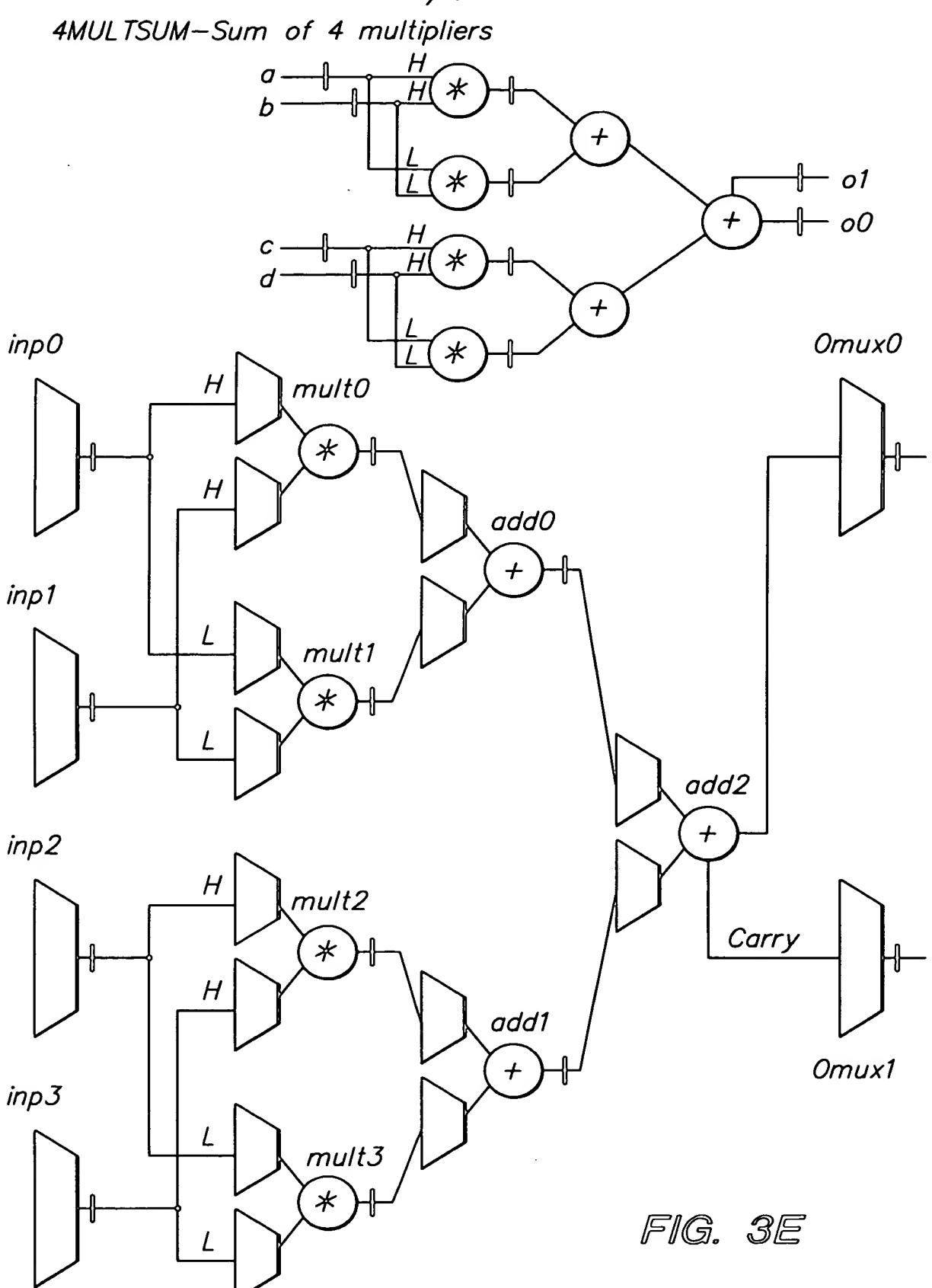
Appln. Filing Date: September 19, 2001 Title: Despreader/Correlator Unit for Us

Reconfigurable Chip

Inventor: Bradley L. Taylor, et al. Application Serial No: 09/960,710



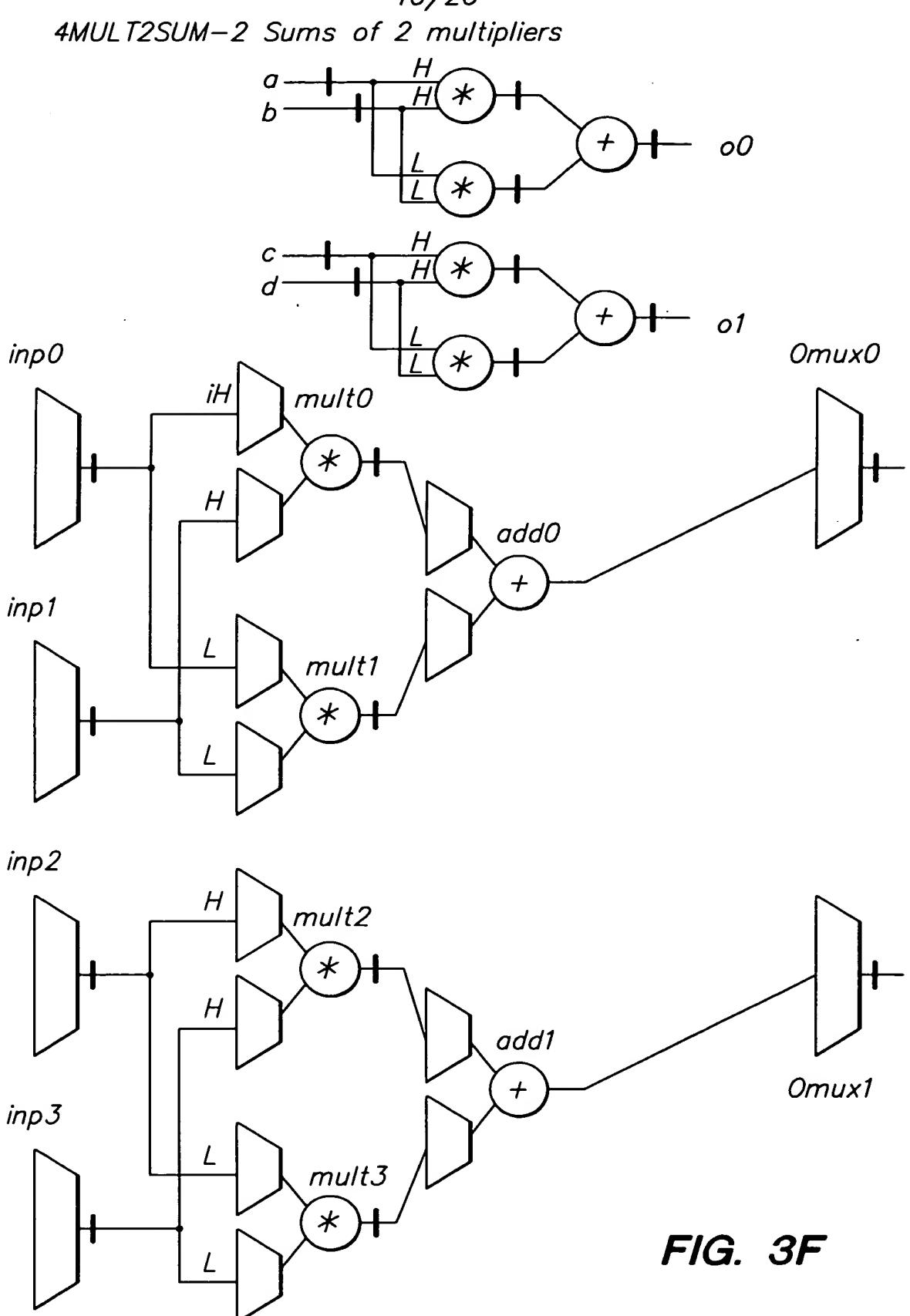
3



APPLN. FILING DATE: SEPTEMBER 19, 2001 TITLE: DESPREADER/CORRELATOR UNIT USE IN RECONFIGURABLE CHIP

INVENTOR: BRADLEY L. TAYLOR, ET AL. APPLICATION SERIAL NO: 09/960,710

10/20



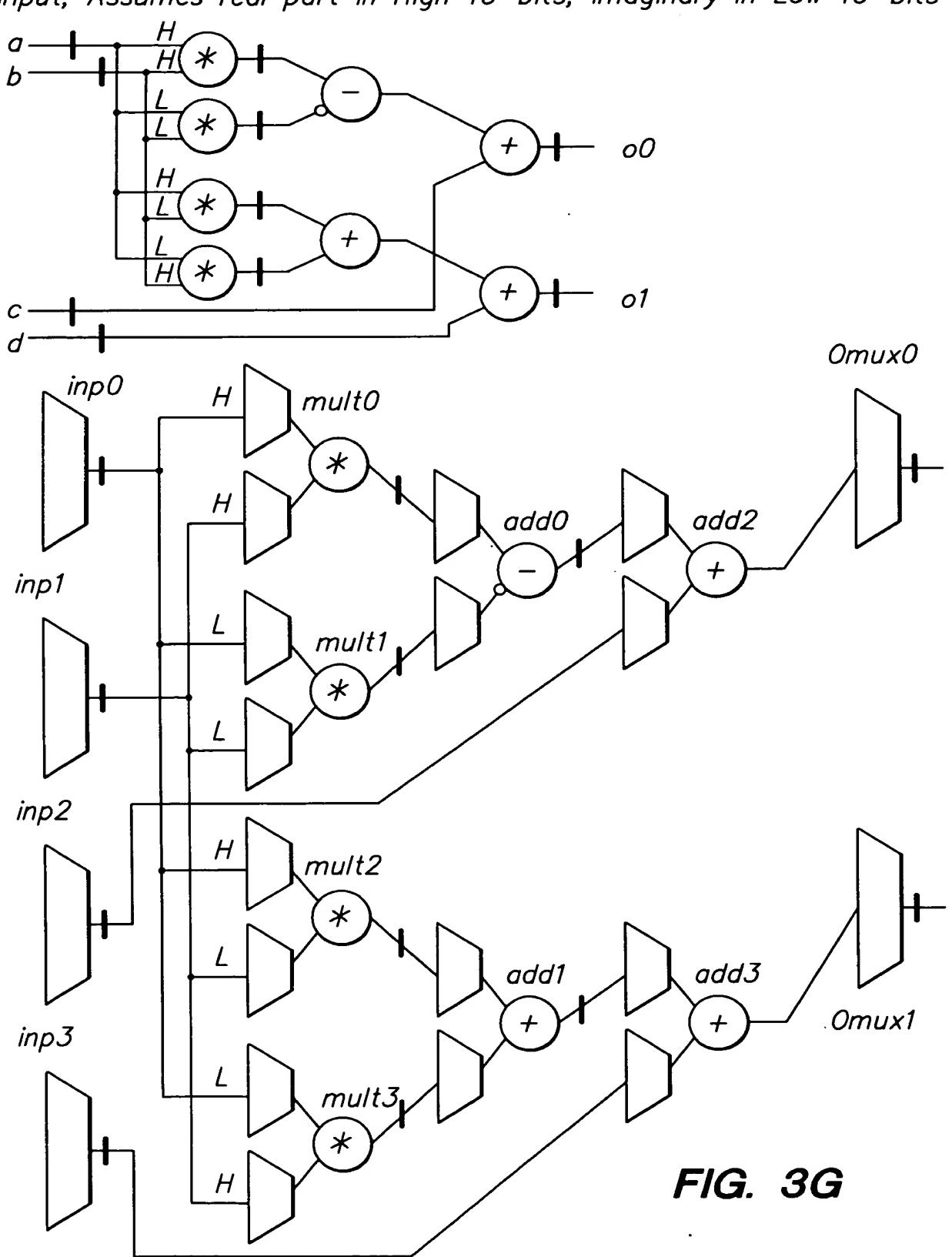
APPLN. FILING DATE: SEPTEMBER 19, 2001 ITLE: DESPREADER/CORRELATOR UNIT USE IN

RECONFIGURABLE CHIP

INVENTOR: BRADLEY L. TAYLOR, ET AL. APPLICATION SERIAL NO: 09/960,710

## 11/20

CMULT-32-bit output complex multiply with 32-Bit accumulation input, Assumes real part in High 16-bits, imaginary in Low 16-bits



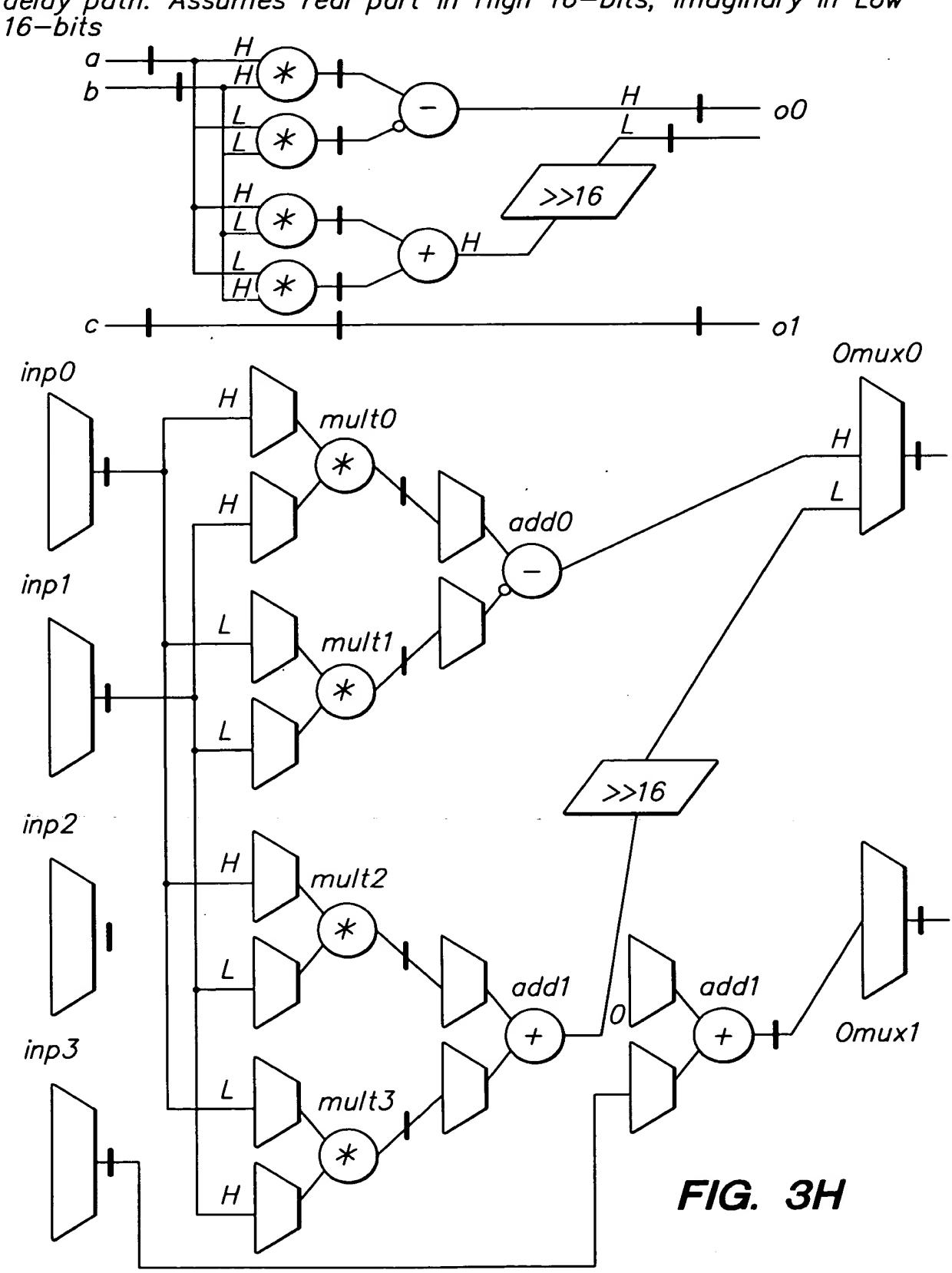
pln. Filing Date: September 19, 2001
Title: Despreader/Correlator Unit for Use in

Reconfigurable Chip

Inventor: Bradley L. Taylor, et al. Application Serial No: 09/960,710

## 12/20

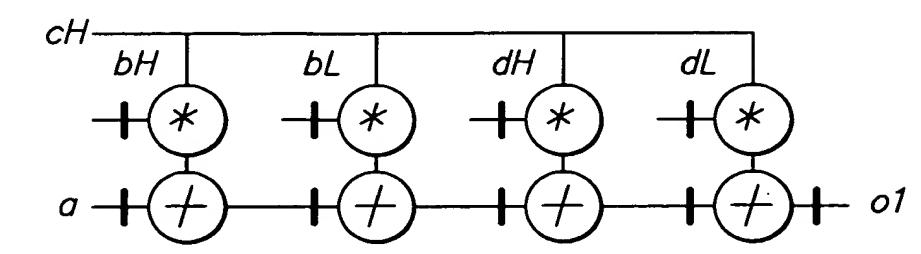
CMULT16-Complex Multiplier with 16-Bit Packed data, and indepent delay path. Assumes real part in High 16-bits, imaginary in Low

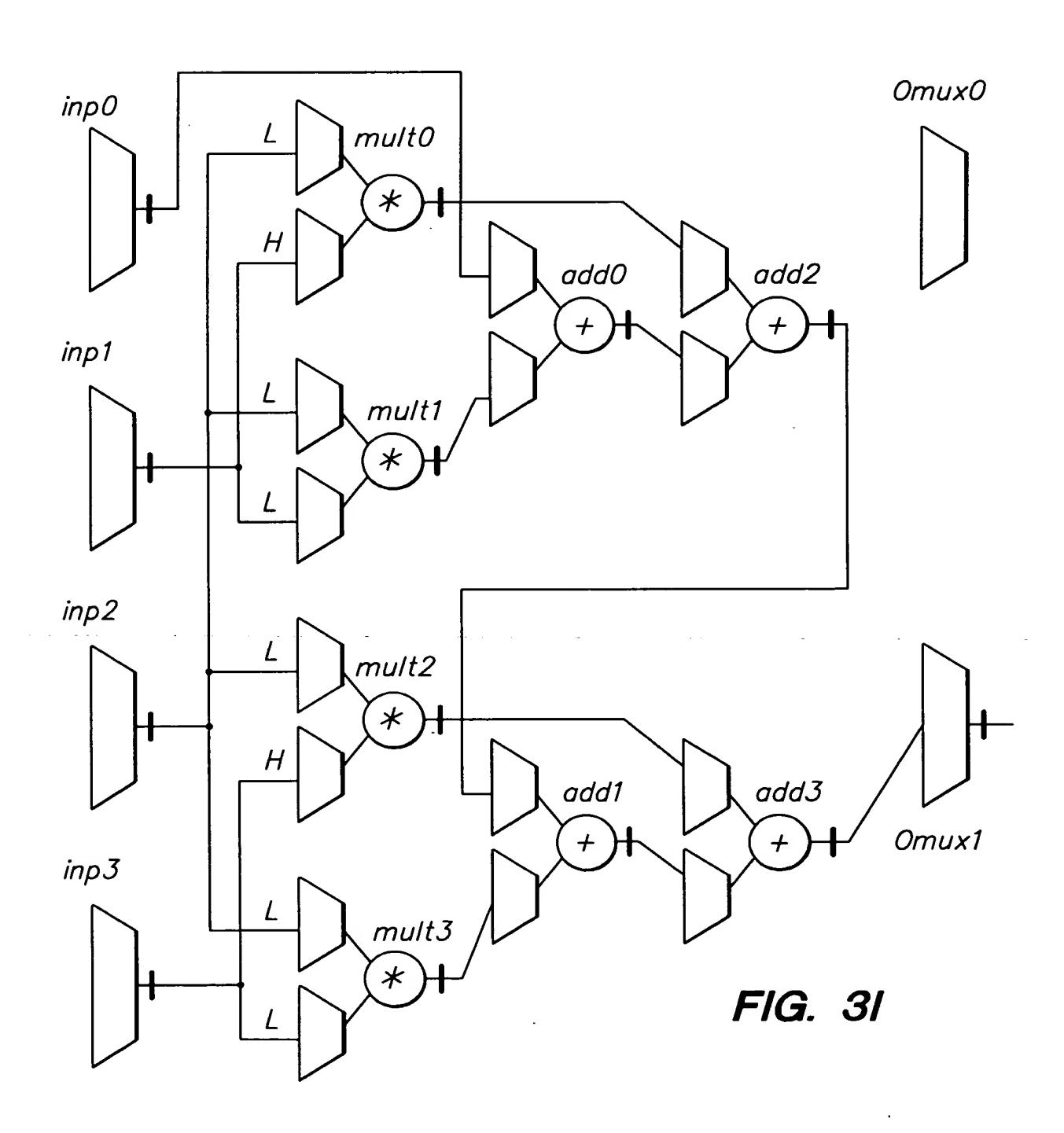


Appln. Filing Date: September 19, 2001
Title: Despreader/Correlator Unit for Use Reconfigurable Chip

13/20

4FIR-4 tap FIR filter

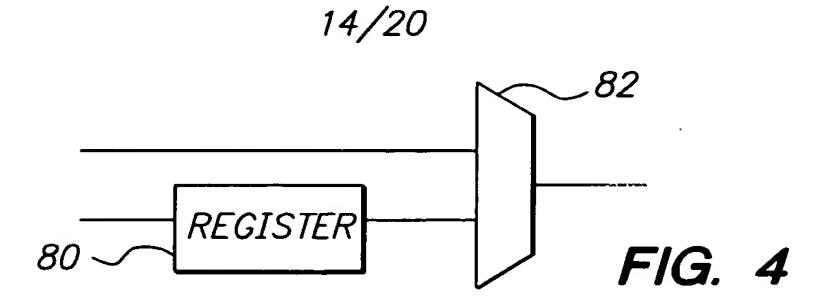


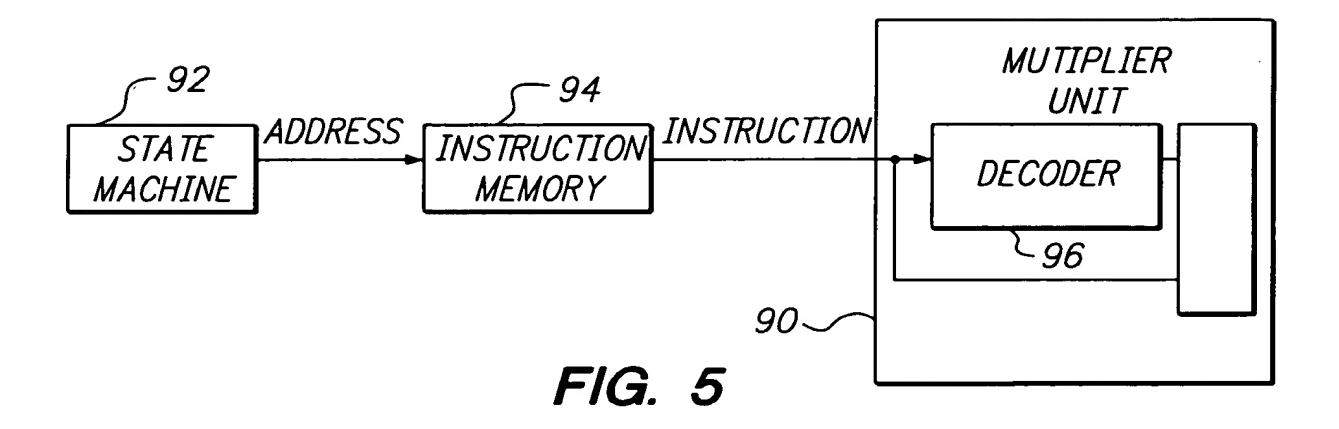


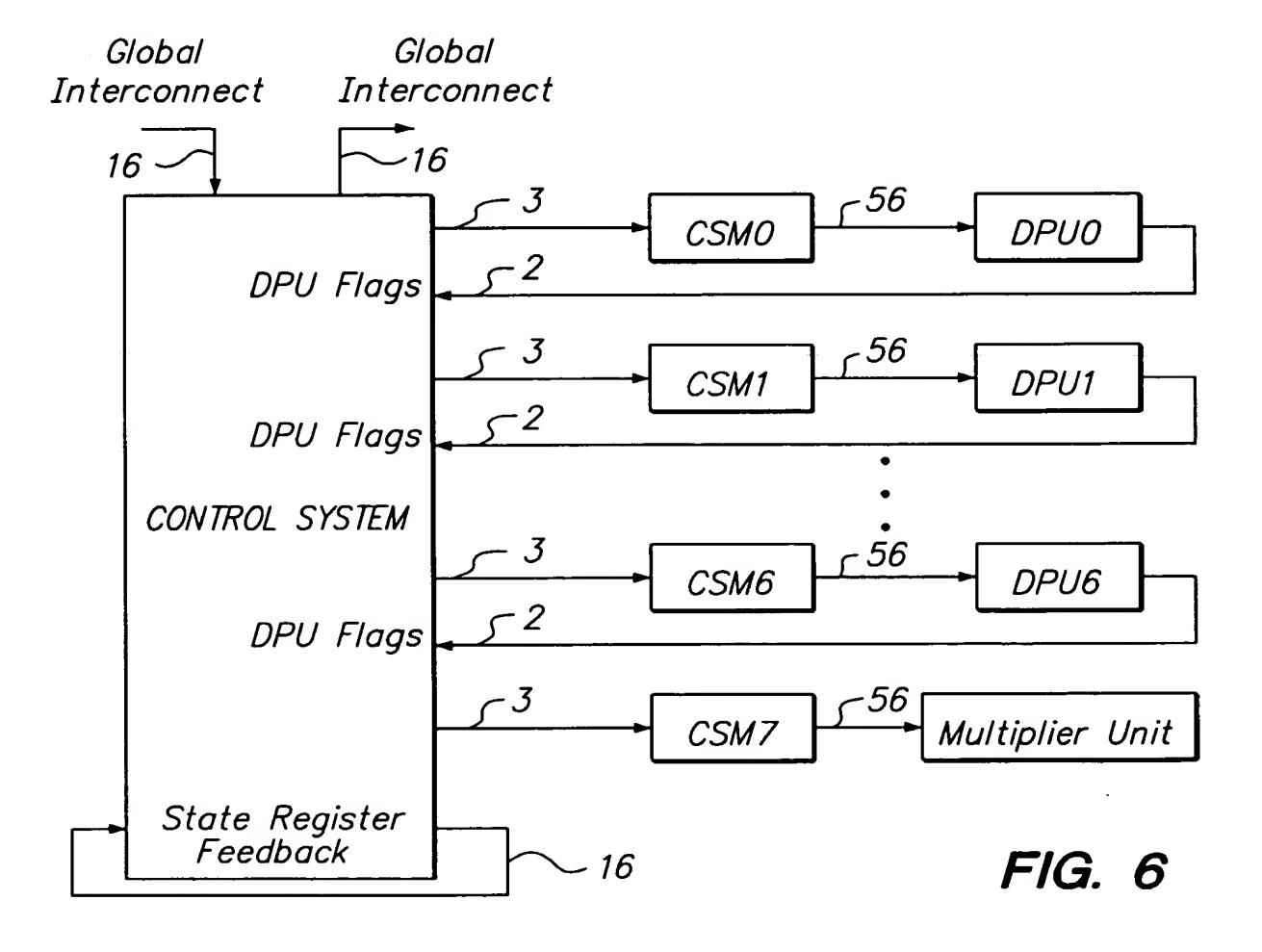
Appln. Filing Date: September 19, 2001

Title: Despreader/Correlator Unit for U

Reconfigurable Chip







Appln. Filing Date: September 19, 200 Title: Despreader/Correlator Unit for Use in Reconfigurable Chip Inventor: Bradley L. Taylor, et al. Application Serial No: 09/960,710

15/20 DPU DPU DPU DPU DPU DPU DPU Multiplier DPU DPU DPU DPU DPU DPU DPU Multiplier DPU DPU DPU DPU DPU DPU DPU Multiplier FIG. 7 Appln. Filing Date: September 19, 2001 le: Despreader/Correlator Unit for Use Reconfigurable Chip Inventor: Bradley L. Taylor, et al. Application Serial No: 09/960,710

16/20

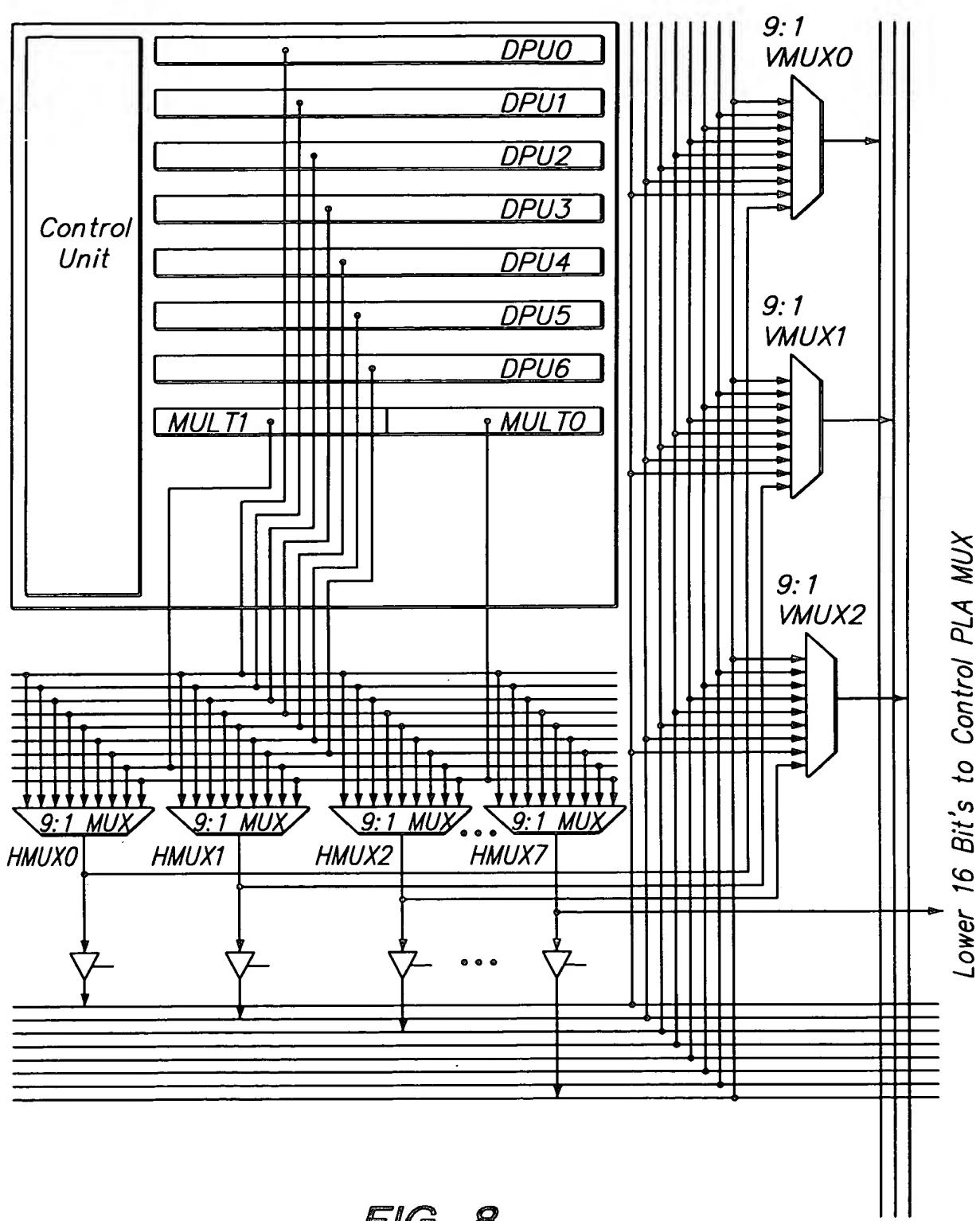


FIG. 8

Appln. Filing Date: September 19, 2001; Title: Despreader/Correlator Unit for Us

Reconfigurable Chip

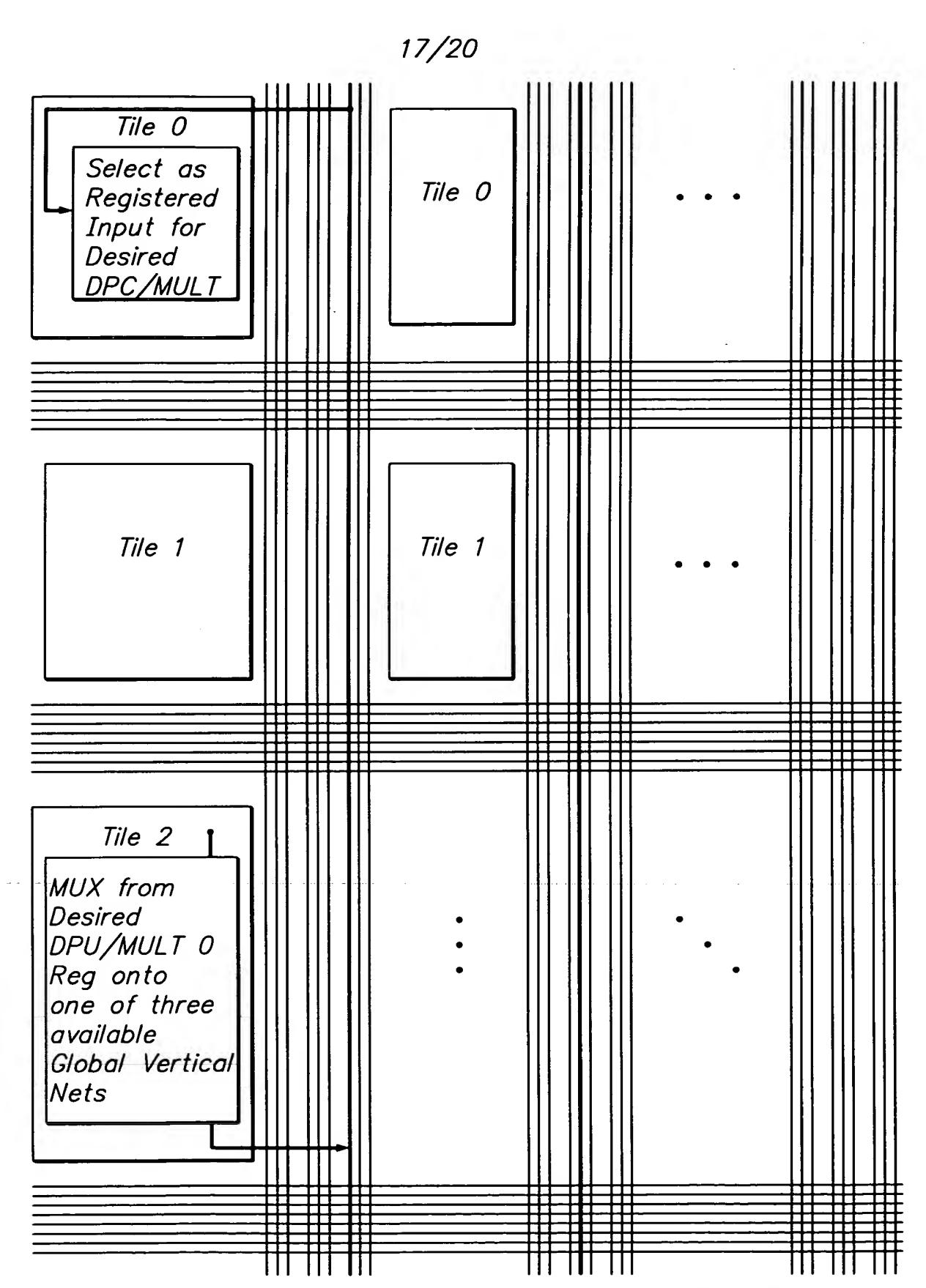


FIG. 9

Appln. Filing Date: September 19, 200
Title: Despreader/Correlator Unit for Use in Reconfigurable Chip
Invenior: Bradley L. Taylor, et al.
Application Serial No: 09/960,710

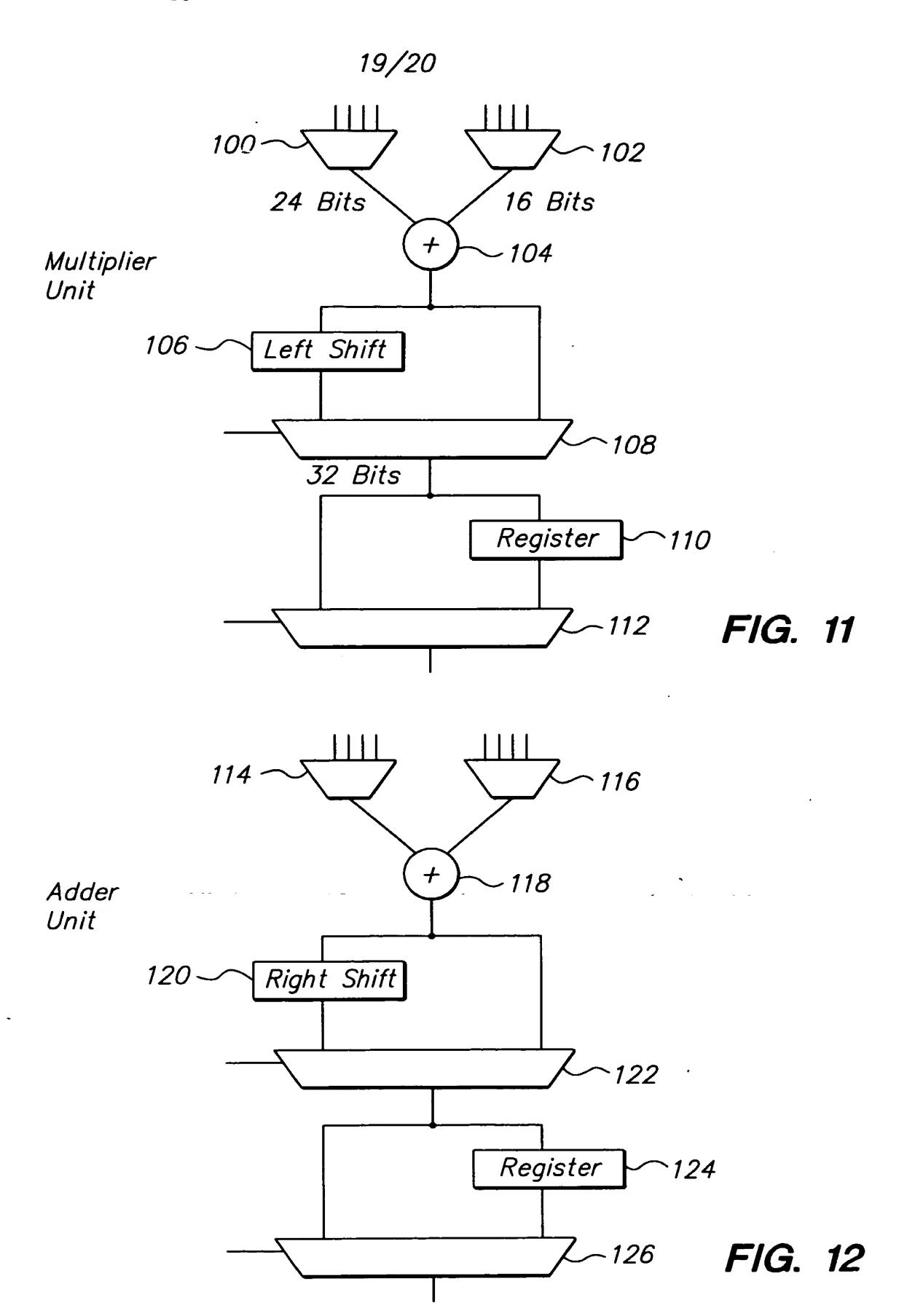
# 18/20

	Inputmux0 Inputmux0	
	Multmux2 Multmux3	Multmux0 Multmux1
	Mult2	MultO
	Mult3	Mult1
Other Units	Desp/Corr Tree 0	
	Desp/Corr Tree 1	
	Desp/Corr Tree 2	
	Desp/Corr Tree 3	
	Adder0	
	Adder1	
	Adder2	
	Adder3	
	Outputmux0	
	Outputmux1	

FIG. 10

pln. Filing Date: September 19, 2001
Title: Despreader/Correlator Unit for Use in

Reconfigurable Chip Inventor: Bradley L. Taylor, et al. **Application Serial No:** 09/960,710



ppln. Filing Date: September 19, 2001 itle: Despreader/Correlator Unit for Use in

Reconfigurable Chip

Inventor: Bradley L. Taylor, et al. Application Serial No: 09/960,710

#### 20/20

The A and B input muxes select from the following sets of 32-bit signals:

